The Codian Robotics D2-1000 TWIN robot is a Delta 2 robot ideal for high speed two-axis pick & place actions. The robot consists of a double D2-1000 mechanic. This enables the application for stable long end-effectors on high speeds.

The concept results in a design with a minimum of mechanical components.

The parallel kinematics design is clean, fast and silent. The D2-1000 TWIN is designed to perform with high payloads up to 40 kg and has a working envelope of 1000 mm. The robot can be controlled by various industry standard motion control systems.

• Suitable for 3rd party control systems
• Open mechanical interface for motors and gears
• Materials: carbon fibre, stainless steel and anodized aluminium
• Zero footprint
• Low maintenance
D2 - 1000 TWIN

THE NEW STANDARD FOR PICKING AND PLACING

SPECIFICATIONS

- Kinematic structure: delta type
- Degrees of freedom: 2
- Protection: IP 55
- Noise level: < 70 dB(A)
- Weight: 200 kg

WORKING RANGE

- Rated working range: ø 1000 x 340 mm
- Payload (max.): 40 kg
- Pick and Place actions: max. 40 p/min
- Position repeatability X,Y,Z: +/- 0.3mm

PERFORMANCE

- Path Z1 x Y x Z2:
  - Payload: 10 kg
  - Cycle times **:
    - 1.71 s
  - Payload: 25 kg
    - 2.00 s
  - Payload: 40 kg
    - 3.10 s
  - Payload: 10 kg
    - 2.40 s
  - Payload: 25 kg
    - 2.73 s
  - Payload: 40 kg
    - 3.85 s

*note that times are based on back and forth movement, pick, place, pick
** indication cycle times depending on the application of the customer